## TECHZH CAL SUPPORT 2013

## " PHENIX WEEKLY PLANNING



6/6/2013 Don Lynch Note: No PHENIX planning meeting this week due to end of run party.

Feel free to discuss safety and planning issues over a burger and some salads at the party.



# THUHZHUAL SUPPORT NOTS

## This Week

- Last week of run 13
- No Scheduled Maintenance this week:
- mRPC Test Lab (Formerly RPC Factory): begin operations
- VTX strip pixel stave re-design prototype evaluation
- Continue sPHENIX support
  - HCal prototype
  - EMCal prototype design continuing
- MPC-Ex design for run 14
- Future IR evolution modeling
- End of Run 13 Barbeque



# THUHZHUAL SUPPORT NO13

## Next Week

- Run 13 Ends
- FVTX Post run tests
- · Flammable Gas Purge
- PASS Interlock tests
- Roll out shield wall
- Shield wall disassembly
- Prep to move EC
- VTX strip pixel stave re-design prototype performance testing
- Continue sPHENIX support
  - HCal prototype
  - EMCal prototype design continuing
- MPC-Ex design for run 14
- Future IR evolution modeling

| ID  | 0    | Task Name                                     | Duration | Start       | May<br>21 28 5 12 19 | June         | July         | August             | September | October      | November     | December  | Jar  |
|-----|------|---|----------|-------------|----------------------|--------------|--------------|--------------------|-----------|--------------|--------------|-----------|------|
| 1   | •    | VTX/FVTX 2013 Re-Building Schedule            | 112 days | Thu 4/25/13 | 21 20 3 12 18        | 20 2 8 10 23 | 30 7 14 21 2 | 0 4   11   10   20 | 1 0 10 22 | 28 0 13 20 2 | 1 3 10 17 24 | 1 0 10 22 | 28 ; |
| 2   |      | Remove VTX east strppxls                      | 0 days   | Thu 4/25/13 | <b>▲</b> 4/25        |              |              |                    | •         |              |              |           |      |
| 3   |      | Evaluate leaks                                | 0 days   | Thu 4/25/13 | <b>▲</b> 4/25        |              |              |                    |           |              |              |           |      |
| 4   |      | Design Improved Strppxl stave to improve      | 0 days   | Thu 4/25/13 | <b>▲</b> 4/25        |              |              |                    |           |              |              |           |      |
| 5   |      | remove, clean and test SMs from east str      | 0 days   | Thu 4/25/13 | <b>▲</b> 4/25        |              |              |                    |           |              |              |           |      |
| 6   |      | order strpxl prototypes                       | 0 days   | Thu 4/25/13 | <b>▲</b> 4/25        |              |              |                    |           |              |              |           |      |
| 7   |      | receive prototype parts and fixtures from     | 14 days  | Thu 4/25/13 | ;                    |              |              |                    |           |              |              |           |      |
| 8   | 1    | inspect prototype parts (Rachid flatness n    | 7 days   | Wed 5/15/13 |                      |              |              |                    |           |              |              |           |      |
| 9   | 11   | Build proto stppxl staves                     | 5 days   | Fri 5/24/13 |                      | i i          |              |                    |           |              |              |           |      |
| 10  | 11   | order production strpxl stave core            | 1 wk     | Mon 5/20/13 |                      |              |              |                    |           |              |              |           |      |
| 11  | 1    | order production strpxl stave facesheets      | 1 wk     | Mon 5/20/13 |                      |              |              |                    |           |              |              |           |      |
| 12  | TI.  | assign workspace                              | 15 days  | Mon 5/13/13 |                      | i            |              |                    |           |              |              |           |      |
| 13  | TT.  | 1st art perf. testing (press, th cycl, th per | 10 days  | Mon 5/27/13 |                      |              |              |                    |           |              |              |           |      |
| 14  | TT.  | set up factory for mass production            | 3 wks    | Mon 6/3/13  |                      |              |              |                    |           |              |              |           |      |
| 15  |      | receive production parts                      | 43 days  | Wed 5/22/13 |                      |              |              |                    |           |              |              |           |      |
| 16  | 1    | Material procurement                          | 4 wks    | Wed 5/22/13 |                      |              | ,            |                    |           |              |              |           |      |
| 17  | III  | 1st Article Delivery                          | 0 days   | Wed 6/19/13 |                      | <b>♦</b> 6/  | 19           |                    |           |              |              |           |      |
| 18  | 11   | 1st article inspection                        | 3 days   | Wed 6/19/13 |                      |              |              |                    |           |              |              |           |      |
| 19  | TI.  | Production staves 1st half                    | 2 wks    | Mon 6/24/13 |                      |              |              |                    |           |              |              |           |      |
| 20  | III  | Production staves balance                     | 2 wks    | Mon 7/8/13  |                      |              |              |                    |           |              |              |           |      |
| 21  | 1    | Production stave covers                       | 3.4 wks  | Mon 5/27/13 |                      |              |              |                    |           |              |              |           |      |
| 22  | TI.  | End of Run-13                                 | 0 days   | Mon 6/10/13 |                      | ♦ 6/10       |              |                    |           |              |              |           |      |
|     | 111  | FVTX Post Run Tests in IR                     | 5 days   | Mon 6/10/13 |                      |              |              |                    |           |              |              |           |      |
|     | 111  | remove VTX/FVTX east from IR to CHEM          | 19 days  | Fri 6/7/13  |                      |              | i            |                    |           |              |              |           |      |
|     | TI.  | disassemble VTX/FVTX east at Chem lab         | 1 wk     | Mon 7/8/13  |                      |              |              |                    |           |              |              |           |      |
|     | 11   | extract FVTX east and transport to PHVS       | 1 day    | Mon 7/15/13 |                      |              | 1            |                    |           |              |              |           |      |
| 27  | 1    | FVTX east eval, trblshtg & repairs as requ    | 4 wks    | Mon 7/15/13 |                      |              |              |                    |           |              |              |           |      |
| 28  |      | Stripixel East                                | 40 days  | Mon 7/8/13  |                      |              | <b>_</b>     | <del>-</del>       | •         |              |              |           |      |
| 29  |      | Assemble East Strpxl stave                    | 30 days  | Mon 7/8/13  |                      |              | <b>—</b>     |                    |           |              |              |           |      |
| - 1 | 11   | assemble strpxl stave 1-2                     | 1 wk     | Mon 7/8/13  |                      |              |              |                    |           |              |              |           |      |
|     | H    | assemble strpxl stave 3-4                     | 1 wk     | Mon 7/15/13 |                      |              |              |                    |           |              |              |           |      |
|     | H    | assemble strpxl stave 5-7                     | 1 wk     | Mon 7/22/13 |                      |              |              |                    |           |              |              |           |      |
|     | III. | assemble strpxl stave 8-10                    | 1 wk     | Mon 7/29/13 |                      |              |              | ┆                  |           |              |              |           |      |
|     | 111  | assemble strpxl stave 11-15                   | 1 wk     | Mon 8/5/13  |                      |              |              |                    |           |              |              |           |      |
| 35  | ī    | assemble strpxl stave 16-20                   | 1 wk     | Mon 8/12/13 |                      |              |              |                    |           |              |              |           |      |

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|          | 0          |  |                     |                      | May | June         | July | Augus                | st September       |               |               | December        | January   |
|----------|------------|--|---------------------|----------------------|-----|--------------|------|----------------------|--------------------|---------------|---------------|-----------------|-----------|
| 1D<br>36 | -          | Task Name  Attach Sensors to East strpxl stave | Duration<br>30 days | Start<br>Mon 7/15/13 |     | 26 2 9 16 23 | 30 7 | 14   21   28   4   1 | 11 18 25 1 8 15 22 | 29 6 13 20 27 | 3  10  17  24 | 1   8   15   22 | 2 29 5 12 |
| 37       | <b>III</b> | sensors on strpxl stave 1-2                    | 1 wk                | Mon 7/15/13          |     |              |      |                      |                    |               |               |                 |           |
| 38       | <u> </u>   | sensors on strpxl stave 3-4                    | 1 wk                | Mon 7/22/13          |     |              | '    | _                    |                    |               |               |                 |           |
| 39       | <u> </u>   | sensors on strpxl stave 5-7                    | 1 wk                | Mon 7/29/13          |     |              |      | <b>"</b>             |                    |               |               |                 |           |
| 40       |            | ·  | 1 wk                | Mon 8/5/13           |     |              |      | 7,                   |                    |               |               |                 |           |
| 41       | 1          | sensors on strpxl stave 8-10                   | 1 wk                | Mon 8/12/13          |     |              |      |                      | _                  |               |               |                 |           |
|          | <b>III</b> | sensors on strpxl stave 11-15                  |                     |                      |     |              |      |                      |                    |               |               |                 |           |
| 42       | Ⅲ          | sensors on strpxl stave 16-20                  | 1 wk                | Mon 8/19/13          |     |              |      |                      |                    |               |               |                 |           |
| 43       |            | Test East Strpxl ladders                       | 30 days             | Mon 7/22/13          |     |              |      | <b>V</b>             | <del></del> +      |               |               |                 |           |
| 44       | <b></b>    | testing strpxl ladder 1-2                      | 1 wk                | Mon 7/22/13          |     |              |      |                      |                    |               |               |                 |           |
| 45       | <b>III</b> | testing strpxl ladder 3-4                      | 1 wk                | Mon 7/29/13          |     |              |      | ė.                   |                    |               |               |                 |           |
| 46       | <b></b>    | testing strpxl ladder 5-7                      | 1 wk                | Mon 8/5/13           |     |              |      |                      |                    |               |               |                 |           |
| 47       | ===        | testing strpxl ladder 8-10                     | 1 wk                | Mon 8/12/13          |     |              |      | [                    |                    |               |               |                 |           |
| 48       | <b>III</b> | testing strpxl ladder 11-15                    | 1 wk                | Mon 8/19/13          |     |              |      |                      |                    |               |               |                 |           |
| 49       | <u> </u>   | testing strpxl ladder 16-20                    | 1 wk                | Mon 8/26/13          |     |              |      |                      |                    |               |               |                 |           |
| 50       |            | East Strpxl laddr ready for Assembl            | 25 days             | Fri 7/26/13          |     |              |      | <b>V</b>             | <del></del>        |               |               |                 |           |
| 51       | <b>=</b>   | strpxl ladder 1-2 ready for assemb             | 0 days              | Fri 7/26/13          |     |              |      | <b>♦</b> 7/26        |                    |               |               |                 |           |
| 52       | <b>==</b>  | strpxl ladder 3-4 ready for assem              | 0 days              | Fri 8/2/13           |     |              |      | 8/2                  | !                  |               |               |                 |           |
| 53       | <u></u>    | strpxl ladder 5-7 ready for assemb             | 0 days              | Fri 8/9/13           |     |              |      | •                    | 8/9                |               |               |                 |           |
| 54       | <b>==</b>  | strpxl ladder8-10 ready for asseml             | 0 days              | Thu 8/15/13          |     |              |      | •                    | ♦ 8/15             |               |               |                 |           |
| 55       | <b>=</b>   | strpxl ladder 11-15 ready for asser            | 0 days              | Fri 8/23/13          |     |              |      |                      | ♦ 8/23             |               |               |                 |           |
| 56       | <b>==</b>  | strpxl ladder 16-20 ready for asse             | 0 days              | Fri 8/30/13          |     |              |      |                      | ♦ 8/30             |               |               |                 |           |
| 57       | <b>=</b>   | remove VTX/FVTX west from IR to CHEN           | 1 day               | Mon 7/8/13           |     |              | 1    |                      |                    |               |               |                 |           |
| 58       | 1          | disassemble VTX/FVTX west at Chem lab          | 2 wks               | Tue 7/9/13           |     |              |      |                      |                    |               |               |                 |           |
| 59       | <b>===</b> | extract FVTX west and transport to PHVS        | 1 day               | Tue 7/23/13          |     |              |      | 1                    |                    |               |               |                 |           |
| 60       | ⊞          | FVTX west eval, trblshtg & repairs as requ     | 4 wks               | Wed 7/24/13          |     |              |      |                      |                    |               |               |                 |           |
| 61       | ■          | extract pixel layers from west (1 & 2) put     | 1 wk                | Wed 7/24/13          |     |              |      |                      |                    |               |               |                 |           |
| 62       | <b>=</b>   | remove strpxl sensors from VTX west            | 4 wks               | Tue 7/23/13          |     |              |      |                      |                    |               |               |                 |           |
| 63       |            | Stripixel West                                 | 35 days             | Mon 8/12/13          |     |              |      | Ţ                    |                    | ,             |               |                 |           |
| 64       |            | Assemble West Strpxl stave                     | 30 days             | Mon 8/19/13          |     |              |      |                      | <b>—</b>           | ,             |               |                 |           |
| 65       | <b>III</b> | assemble strpxl stave 21-24                    | 1 wk                | Mon 8/19/13          |     |              |      |                      |                    |               |               |                 |           |
| 66       | <b>=</b>   | assemble strpxl stave 25-28                    | 1 wk                | Mon 8/26/13          |     |              |      |                      |                    |               |               |                 |           |
| 67       | ⊞          | assemble strpxl stave 29-32                    | 1 wk                | Mon 9/2/13           |     |              |      |                      |                    |               |               |                 |           |
| 68       | <b>=</b>   | assemble strpxl stave 33-36                    | 1 wk                | Mon 9/9/13           |     |              |      |                      |                    |               |               |                 |           |
| 69       | <b>=</b>   | assemble strpxl stave 37-40                    | 1 wk                | Mon 9/16/13          | ]   |              |      |                      |                    |               |               |                 |           |
| 70       | <b>==</b>  | assemble strpxl stave 41-44                    | 1 wk                | Mon 9/23/13          |     |              |      |                      |                    |               |               |                 |           |

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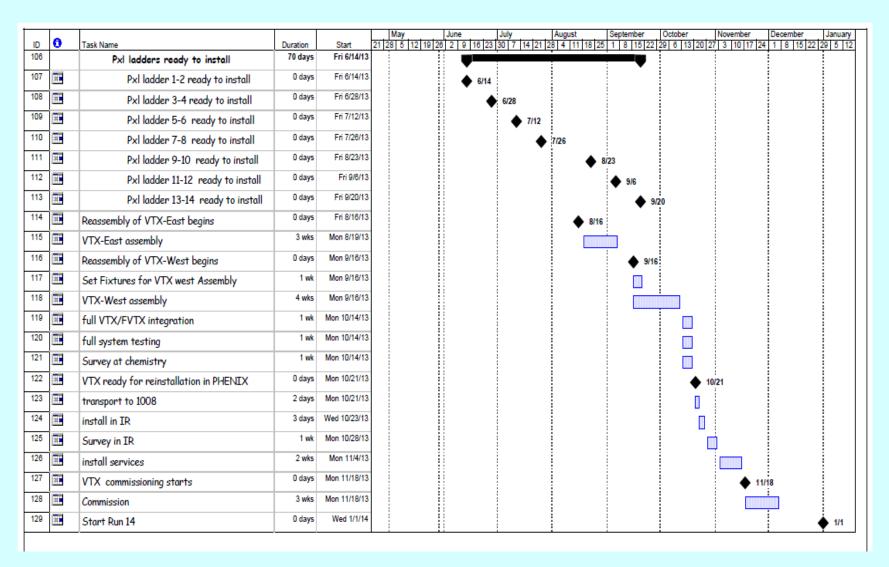
| December 2   Dece |          | 0          |   |                     |                      | 24 | May          | Ju   |             | July       | Augus  | t            | September       | October    | November              | December        | January |
|---|----------|------------|---|---------------------|----------------------|----|--------------|------|-------------|------------|--------|--------------|-----------------|------------|-----------------------|-----------------|---------|
|   | 1D<br>71 |            | Task Name  Attach Sensons to West stroyd staw | Duration<br>25 days | Start<br>Mon 8/12/13 | 21 | 28 5 12 19 2 | 26 2 | 9   16   23 | 30 7 14 21 | 28 4 1 | 11   18   25 | 1   8   15   22 | 29 6 13 20 | 27   3   10   17   24 | 1   8   15   22 | 29 5 12 |
|   | 72       | <b>=</b>   | ,   | -                   | Mon 8/12/13          |    |              |      |             |            | Y      |              | •               |            |                       |                 |         |
| 1   | 73       | =          | ·   | 1 wk                | Mon 8/19/13          |    |              |      |             |            |        | _            |                 |            |                       |                 |         |
|   | 74       |            |   | 1 wk                | Mon 8/26/13          |    |              |      |             |            |        |              |                 |            |                       |                 |         |
| 70  | 75       |            | ·   | 1 wk                | Mon 9/2/13           |    |              |      |             |            |        | _            |                 |            |                       |                 |         |
| Test West Strpxl ladder 2.24   1 wk   | 76       | <b>III</b> |   | 1 wk                | Mon 9/9/13           |    |              |      |             |            |        |              |                 |            |                       |                 |         |
| Testing strpal ladder 25-28   | 77       |            | ·   | 25 days             | Mon 8/19/13          |    |              |      |             |            |        |              |                 |            |                       |                 |         |
| Second Stripk   Golder 20-22   1 wk   | 78       | <b>II</b>  | testing strpxl ladder 21-24                   | 1 wk                | Mon 8/19/13          |    |              |      |             |            |        | Ī            | *               |            |                       |                 |         |
| Testing strpal lodder 33-36   1 mk  | 79       | Ⅲ          | testing strpxl ladder 25-28                   | 1 wk                | Mon 8/26/13          |    |              |      |             |            |        | _            |                 |            |                       |                 |         |
| 1   | 80       | <b>III</b> | testing strpxl ladder 29-32                   | 1 wk                | Mon 9/2/13           |    |              |      |             |            |        |              |                 |            |                       |                 |         |
| Strpxt ladder ready for Assembly   20 days   Mon 8/26/13  | 81       | <b>III</b> | testing strpxl ladder 33-36                   | 1 wk                | Mon 9/9/13           |    |              |      |             |            |        |              |                 |            |                       |                 |         |
| Strips ladder 21-24 ready for asse  | 82       | ⊞          | testing strpxl ladder 37-40                   | 1 wk                | Mon 9/16/13          |    |              |      |             |            |        |              |                 |            |                       |                 |         |
| Strpxt ladder 25-28 ready for asse  | 83       |            | Strpxl laddr ready for Assembly               | 20 days             | Mon 8/26/13          |    |              |      |             |            |        | ₩.           | _               |            |                       |                 |         |
| 88  | 84       | <b>III</b> | strpxl ladder 21-24 ready for asse            | 0 days              | Mon 8/26/13          |    |              |      |             |            |        | <b>♦</b>     | 8/26            |            |                       |                 |         |
| 37 □ strpxt ladder 33-36 ready for asse   | 85       | ==         | strpxl ladder 25-28 ready for asse            | 0 days              | Mon 9/2/13           |    |              |      |             |            |        | •            | 9/2             |            |                       |                 |         |
| 88  | 86       | <b>III</b> | strpxl ladder 29-32 ready for asse            | 0 days              | Mon 9/9/13           |    |              |      |             |            |        |              | 9/9             |            |                       |                 |         |
| Pixel   | 87       |            | strpxl ladder 33-36 ready for asse            | 0 days              | Mon 9/16/13          |    |              |      |             |            |        |              | 9/1             | 6          |                       |                 |         |
| Repaired ladders shipped from Japar   55 days   Mon 5/27/13   | 88       | <b>III</b> | strpxl ladder 37-40 ready for asse            | 0 days              | Mon 9/23/13          |    |              |      |             |            |        |              | <b>♦</b>        | 9/23       |                       |                 |         |
| Proceedings   Prof. of July   | 89       |            | Pixel   | 85 days             | Mon 5/27/13          |    | V            | •    |             |            | +      |              | _               |            |                       |                 |         |
| Repaired ladders 1-1 shipped from Ja  | 90       |            | Repaired ladders shipped from Japan           | 55 days             | Mon 5/27/13          |    | V            | -    |             |            | ₩,     |              |                 |            |                       |                 |         |
| Repaired ladders 6-7 shipped from   1 wk   Mon 8/24/13  | 91       |            | Repaired ladders 1-4 shipped from             | 1 wk                | Mon 5/27/13          |    |              |      |             |            |        |              |                 |            |                       |                 |         |
| Repaired ladders 8-9 shipped from 1 wk   Mon 8/24/13     Repaired ladders 10-11 shipped fro 1 wk   Mon 8/5/13     Repaired ladders 12-13 shipped fro 1 wk   Mon 8/5/13     Repaired ladders 12-13 shipped from 1 wk   Mon 8/5/13     Repaired ladders 14 shipped from 2 wks   Mon 6/3/13     Repaired ladders 14 shipped from 3 wk   Mon 8/3/13     Repaired ladders 14 shipped from 3 wk   Mon 8/3/13     Repaired ladders 14 shipped from 3 wk   Mon 8/3/13     Repaired ladders 12-13 shipped from 3 wk   Mon 8/3/13     Repaired ladders 10-11 shipped from 3 wk   Mon 8/3/13     Repaired ladders 10-11 shipped from 1 wk   Mon 8/5/13     Repaired ladders 10-11 shipped from 1 wk   Mon 8/5/13     Repaired ladders 10-11 shipped from 1 wk   Mon 8/5/13     Repaired ladders 10-11 shipped from 1 wk   Mon 8/5/13     Repaired ladders 10-11 shipped from 1 wk   Mon 8/5/13     Repaired ladders 10-11 shipped from 1 wk   Mon 8/5/13     Repaired ladders 10-11 shipped from 1 wk   Mon 8/5/13     Repaired ladders 10-11 shipped from 1 wk   Mon 8/5/13     Repaired ladders 10-11 shipped from 1 wk   Mon 8/5/13     Repaired ladders 10-11 shipped from 1 wk   Mon 8/5/13     Repaired ladders 10-11 shipped from 1 wk   Mon 8/5/13     Repaired ladders 10-11 shipped from 1 wk   Mon 8/5/13     Repaired ladders 10-11 shipped from 1 wk   Mon 8/5/13     Repaired ladders 10-11 shipped from 1 wk   Mon 8/5/13     Repaired ladders 10-11 shipped from 1 wk   Mon 8/5/13     Repaired ladders 12-13 shipped from 1 wk   Mon 8/5/13     Repaired ladders 12-13 shipped from 1 wk   Mon 8/5/13     Repaired ladders 12-13 shipped from 1 wk   Mon 8/5/13     Repaired ladders 12-13 shipped from 1 wk   Mon 8/5/13     Repaired ladders 12-13 shipped from 1 wk   Mon 8/5/13     Repaired ladders 12-13 shipped from 1 wk   Mon 8/5/13     Repaired ladders 12-13 shipped from 1 wk   Mon 8/5/13     Repaired ladders 12-13 shipped from 1 wk   Mon 8/5/13     Repaired ladders 12-13 shipped from 1 wk   Mon 8/5/13     Repaired ladders 12-13 shipped from 1 wk   Mon 8/5/13     Repaired ladders 12-13 shipp  | 92       |            | Repaired ladder 5 shipped from Ja             | 1 wk                | Mon 6/10/13          |    |              |      |             |            |        |              |                 |            |                       |                 |         |
| Repaired ladders 10-11 shipped fro   1 wk   Mon 8/5/13  |          |            | Repaired ladders 6-7 shipped from             | 1 wk                | Mon 6/24/13          |    |              |      |             |            |        |              |                 |            |                       |                 |         |
| Repaired ladders 12-13 shipped frc   1 wk   Mon 8/5/13  |          | J          |   |                     |                      |    |              |      |             |            |        |              |                 |            |                       |                 |         |
| Repaired ladders 14 shipped from   1 wk   Mon 8/5/13  |          |            | Repaired ladders 10-11 shipped fro            | 1 wk                |                      |    |              |      |             |            |        |              |                 |            |                       |                 |         |
| 98  |          |            | Repaired ladders 12-13 shipped fro            |                     |                      |    |              |      |             |            |        |              |                 |            |                       |                 |         |
| Px   ladder 1-2 testing   2 wks   Mon 6/3/13  |          | ⊞          | Repaired ladders 14 shipped from (            | 1 wk                |                      |    |              |      |             |            |        |              |                 |            |                       |                 |         |
| 100   Pxl ladder 3-4 testing   2 wks   Mon 6/17/13  | 98       |            | Pxl ladder testing                            | 80 days             | Mon 6/3/13           |    |              | ♥    |             |            |        |              | _               |            |                       |                 |         |
| 101   | 99       |            | Pxl ladder 1-2 testing                        | 2 wks               | Mon 6/3/13           |    |              |      |             |            |        |              |                 |            |                       |                 |         |
| 102   |          | I —        | Pxl ladder 3-4 testing                        | 2 wks               | Mon 6/17/13          |    |              |      |             |            |        |              |                 |            |                       |                 |         |
| 103  Pxl ladder 9-10 testing  |          |            | Pxl ladder 5-6 testing                        | 2 wks               |                      |    |              |      |             |            |        |              |                 |            |                       |                 |         |
| 104  Pxl ladder 11-12 testing   |          | _          | Pxl ladder 7-8 testing                        | 2 wks               |                      |    |              |      |             |            |        |              |                 |            |                       |                 |         |
| TAI Rudger II-12 leasing  |          |            | Pxl ladder 9-10 testing                       |                     |                      |    |              |      |             |            |        |              |                 |            |                       |                 |         |
| 105 H Pxl ladder 13-14 testing 2 wks Mon 9/9/13   |          | _          | Pxl ladder 11-12 testing                      | 2 wks               |                      |    |              |      |             |            |        |              |                 |            |                       |                 |         |
|   | 105      | <b>III</b> | Pxl ladder 13-14 testing                      | 2 wks               | Mon 9/9/13           | L  |              |      |             |            |        |              |                 |            |                       |                 |         |

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## TECHZHUAL SUPPORT 2013



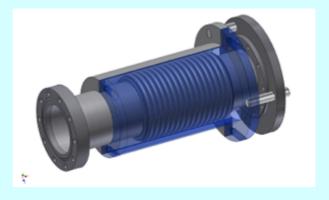
**5/15/23**13



# TECHZHUAL SUPPORT 2013

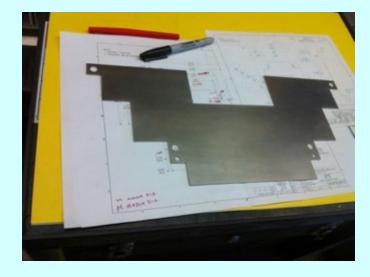


Existing vacuum bellows anti-squirm In MPC S Cavity



Proposed vacuum bellows antisquirm in MPC S Cavity to accommodate MPC-Ex





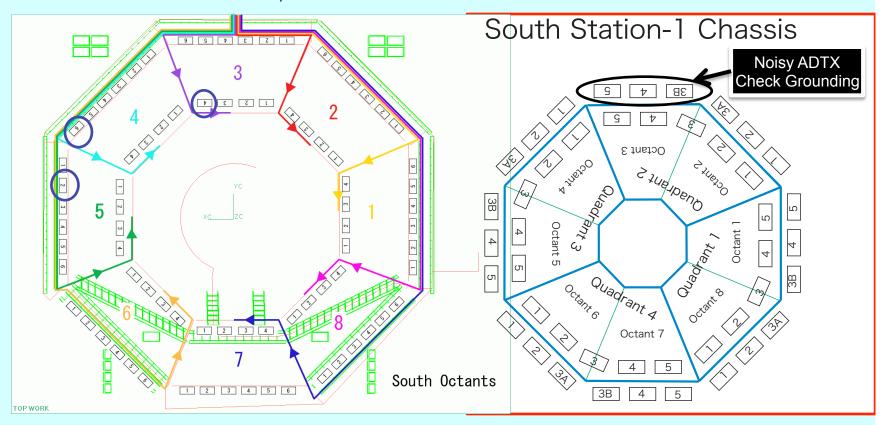
1<sup>st</sup> Tungsten Plate received: Inspection OK



## -ECHZHCAL SUPPORT

## MuTr South Arm Areas to be accessed

Station-2,3





## **TECHZHUAL** SUPPORT 2013

### Major Projects This Summer:

- VTX repairs/upgrades/general maintenance (Mike L.)
- DC East Window Replacement (Kenny J.)
- MPC-Ex Initial (partial) Installation (Jim L.)
- mRPC Tests in mRPC Test Lab (formerly RPC Factory) (Frank T.)
- sPHENIX Prototypes assembly & tests (All)
- MuTr troubleshooting and Repairs (Chris P.)
- Window Washer Winch upgrade (Jim L.)

## Other Mechanical (TBD)

## Other Electrical Projects

- HVAC Controls Upgrade (Frank T.)
- Complete Window Washer Controls Upgrade (Frank T.)

## Other Electronics Projects

- Additional upgrading of ADAM system to MODBUS (Sal P.)
- Electronics research in support of sPHENIX and RATCAP (Sal P.)
- Lecroy HV comminuications upgrade (Sal P.)

## Other Gas System Projects (TBD)

- RPC Gas Recirc. Upgrade (John T.)
- Drawing and Config. Control Improvements (SULI Student)

## Other Infrastructure Projects (TBD)

# THUHZHUAL SUPPORT NOTS

### Work Permits for 2013 Shutdown

- Start of Shutdown
- VTX/FVTX repair & Upgrade
- MPC-Ex initial/prototype installation
- DC East Window replacement
- sPHENIX prototype assembly and test setup
- MuTr troubleshooting and repairs
- Window Washer Winch replacement/upgrade
- Other TBD
- End of Shutdown/Run 14 Prep



## 2013 Shutdown Schedule

| _         | Prep for 2013 shutdown                                       | 2/11-6/11/2013  |
|-----------|--|-----------------|
|           | Design, Fabricate MPC-Ex                                     |                 |
| Ę         | Define tasks and goals                                       |                 |
| C         | Analysis and design of fixtures, tools and procedures        |                 |
| Н         | Fabricate/procure tools and fixtures                         |                 |
| N         | Tests, mockups, prototypes                                   |                 |
| I         | Receive, fabricate, modify, finish installables              |                 |
| C         | Review and approval of parts, tools, fixtures and procedures |                 |
| - BUIZHUA | Assembly and QA tests  |                 |
| L         | VTX Strippixel redesign                                      | In-progress     |
|           | VTX Strippixel 1st article stave assembly                    | 5/3/2013        |
| 5         | VTX Strippixel 1st article qualification/performance tests   | 5/31/2013       |
| Ũ         | VTX strippixel stave production                              | 5/20-8/30/2013  |
| Ď         | VTX Strippixel sensor reclamation                            | 4/1-8/30/2013   |
| SUPPORT   | VTX Strippixel ladder assembly                               | 6/1-9/27/2013   |
| 5         | Pixel Ladder repairs   | 4/1-9/27/2013   |
| K         | End of Run Party   | 6/6/2013        |
| <b>F</b>  | Run 12 Ends  | 6/11/2013       |
| ı         | Shutdown Standard Tasks                                      | 6/11-7/19/2013  |
| 2         | Open wall, disassemble wall, Remove MuID Collars,            | 0,11 ,,15,12010 |
|           | • Move EC to AH, etc.  |                 |
| 2013      | VTX/FVTX Post run tests                                      | 6/11-6/14/2013  |
| Ţ         | Disassemble VTX/FVTX services                                | 6/17-7/3/2013   |
| 3         | July 4 <sup>th</sup> Holiday                                 | 7/4-7/2013      |
|           | Remove VTX/FVTX and transport to Chemistry Lab               | 7/8/2013        |
|           | Remove Lampshade MMS, East Vertical                          | 7/8-12/2013     |
|           | Assemble, Test and Install MPC-Ex (Partial, location TBD)    | 7/22-10/1/2013  |
|           | 6/6/2013   | 12              |
| •         | 5, 5, 2010   | 12              |





PUHZHUA SUPPOR

MuTR Troubleshooting, maintenance and repairs Summer Sunday (8/11) Prep and teardown Summer Sunday (RHIC) DC East Window Upgrade and Related Repairs sPHENIX HCal Prototype Assembly/test Labor Day Holiday Repair upgrade, reassemble VTX/FVTX (pixels and strip-pixels) Test, survey (at Chemistry and IR) and re-install VTX/FVTX Other detector maintenance as required Infrastructure maintenance as required TBD prototype tasks Pre-run commissioning and prep for run 14 Veterans Day, Lab Holiday Prep for EC roll in Roll in FC Prep IR for run Thanksgiving Holidays Pink/Blue/White sheets Christmas Holiday New Year's Day Holiday

7/22-9/27/2013 7/29-8/6/2013 8/4/2013 8/19-9/27/2013 8/19-10/15/2013 9/2/2013 7/11-10/13/2013 10/16-10/27/2013 As required As required As required 11/1-12/31/2012 11/11/2013 11/1-11/9/2013 11/10-11/12/2013 11/1-11/30/2013 11/28-29/2013 12/14-12/31/2013 12/24-25/2013 1/1/2014 1/2/2014

6/6/2013

Start run 14

## -ECHZHCAL SUPPORT 2013

## Where To Find PHENIX Engineering Info





End of Run 13 Coming next week..



Enjoy the End of run party!

(Today) Thursday, June 6, at 12:30 PM



http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL\_SSint-page.htm